

FIG. 1

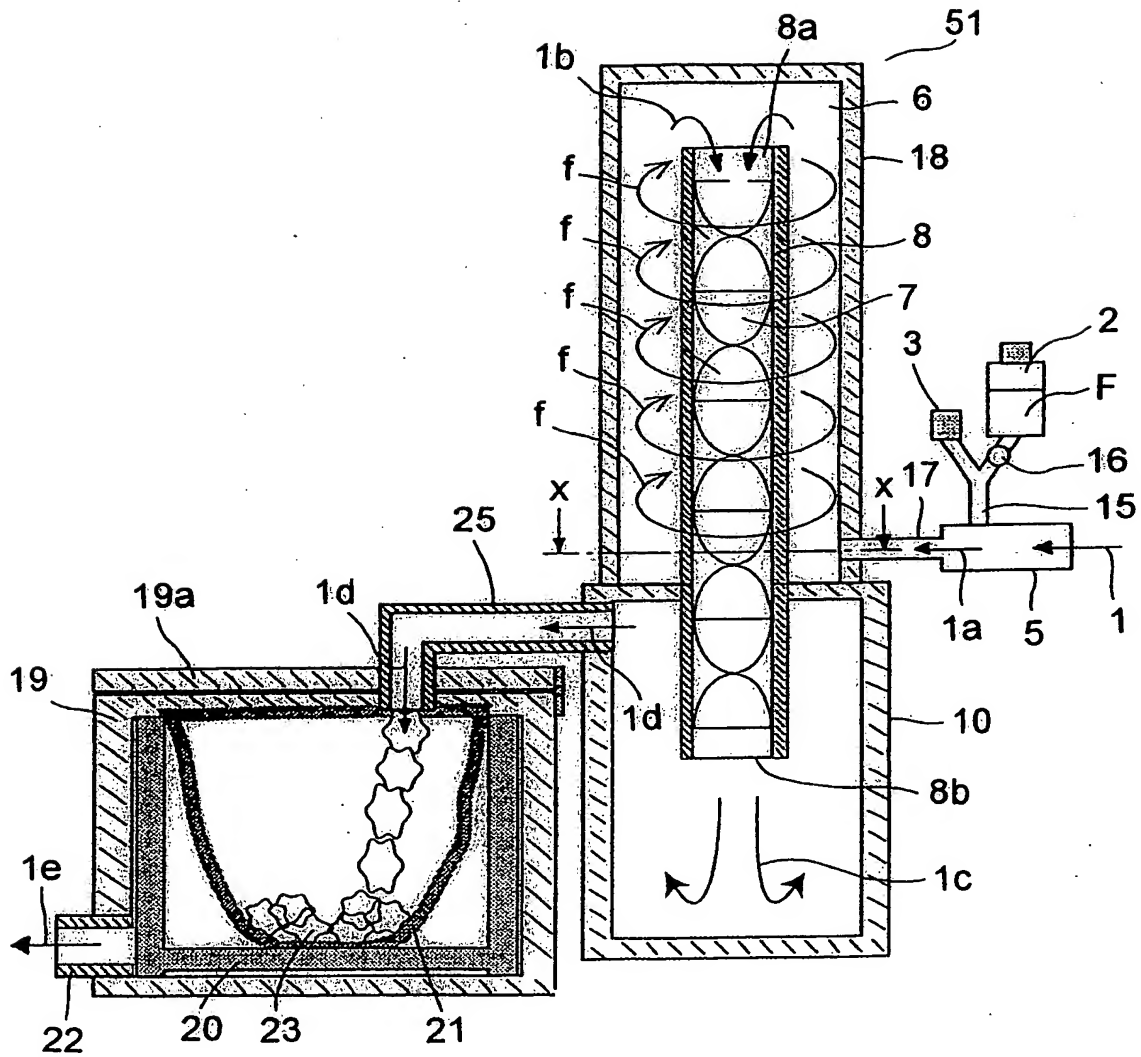


FIG. 2

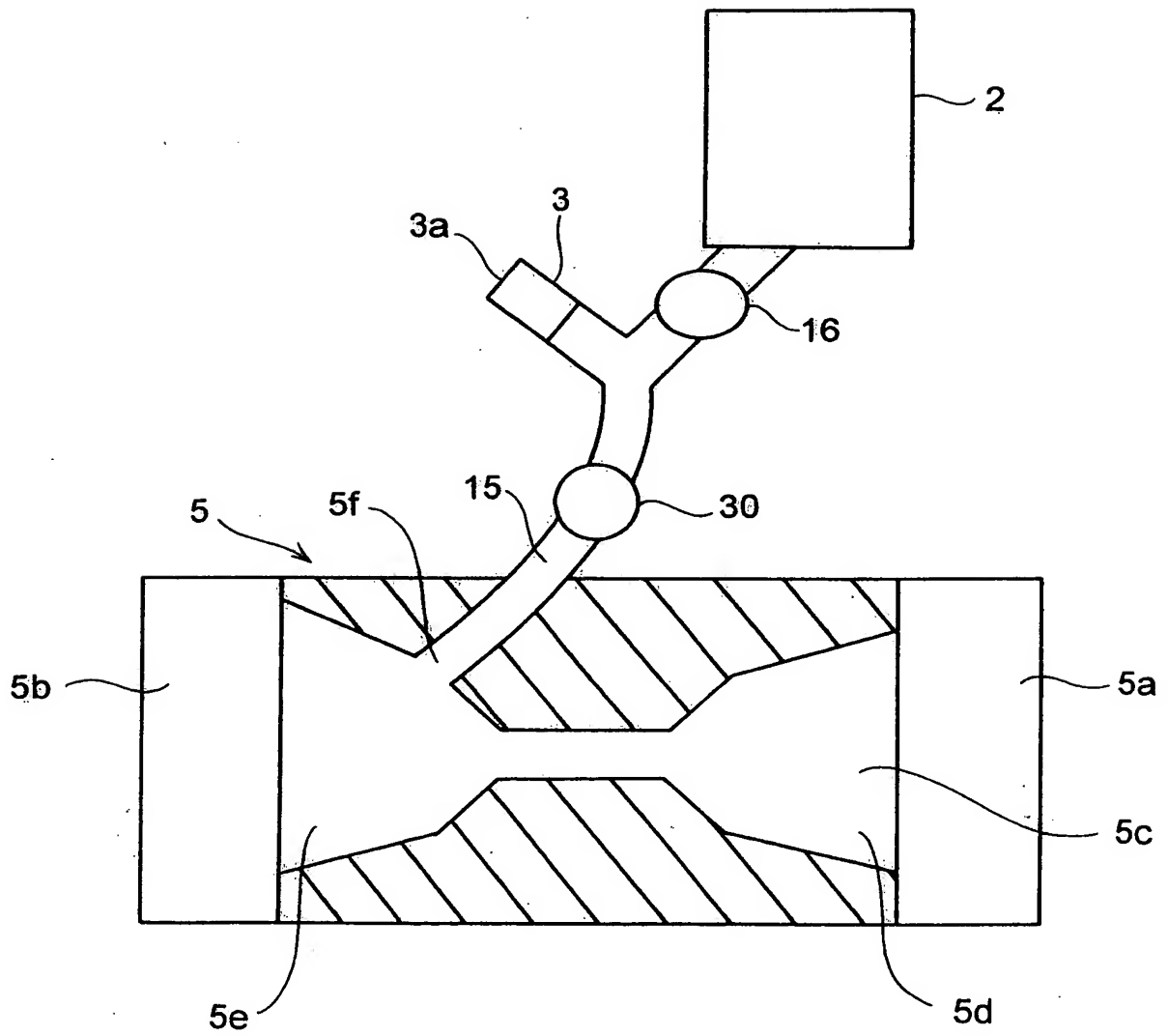
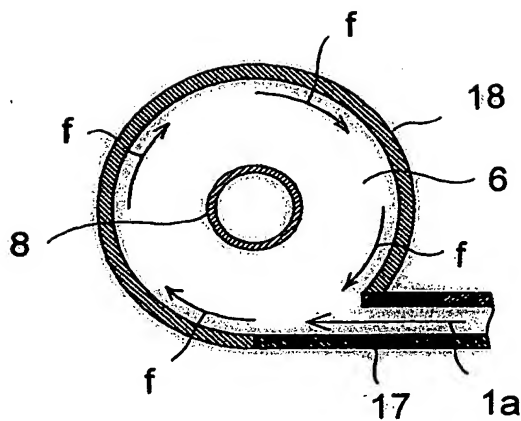
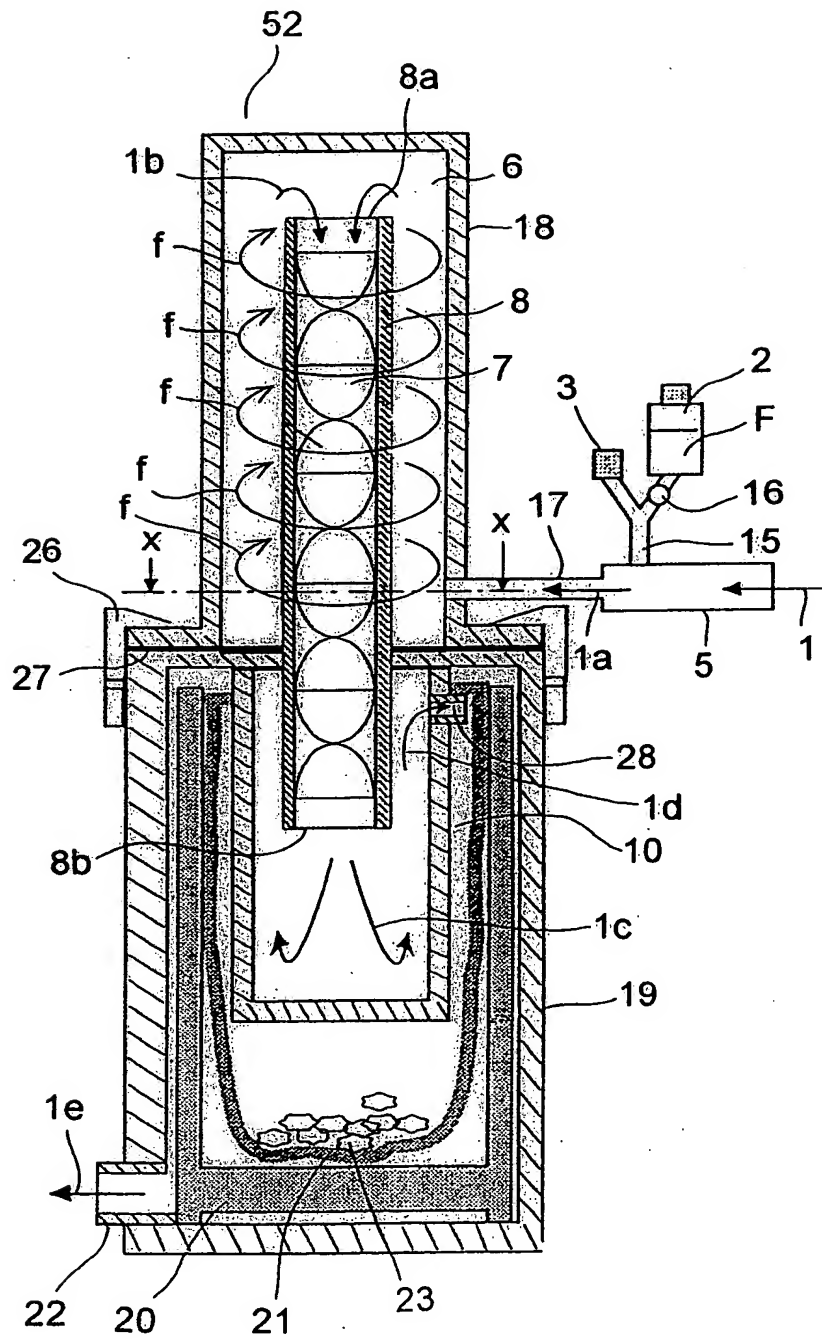


FIG. 3



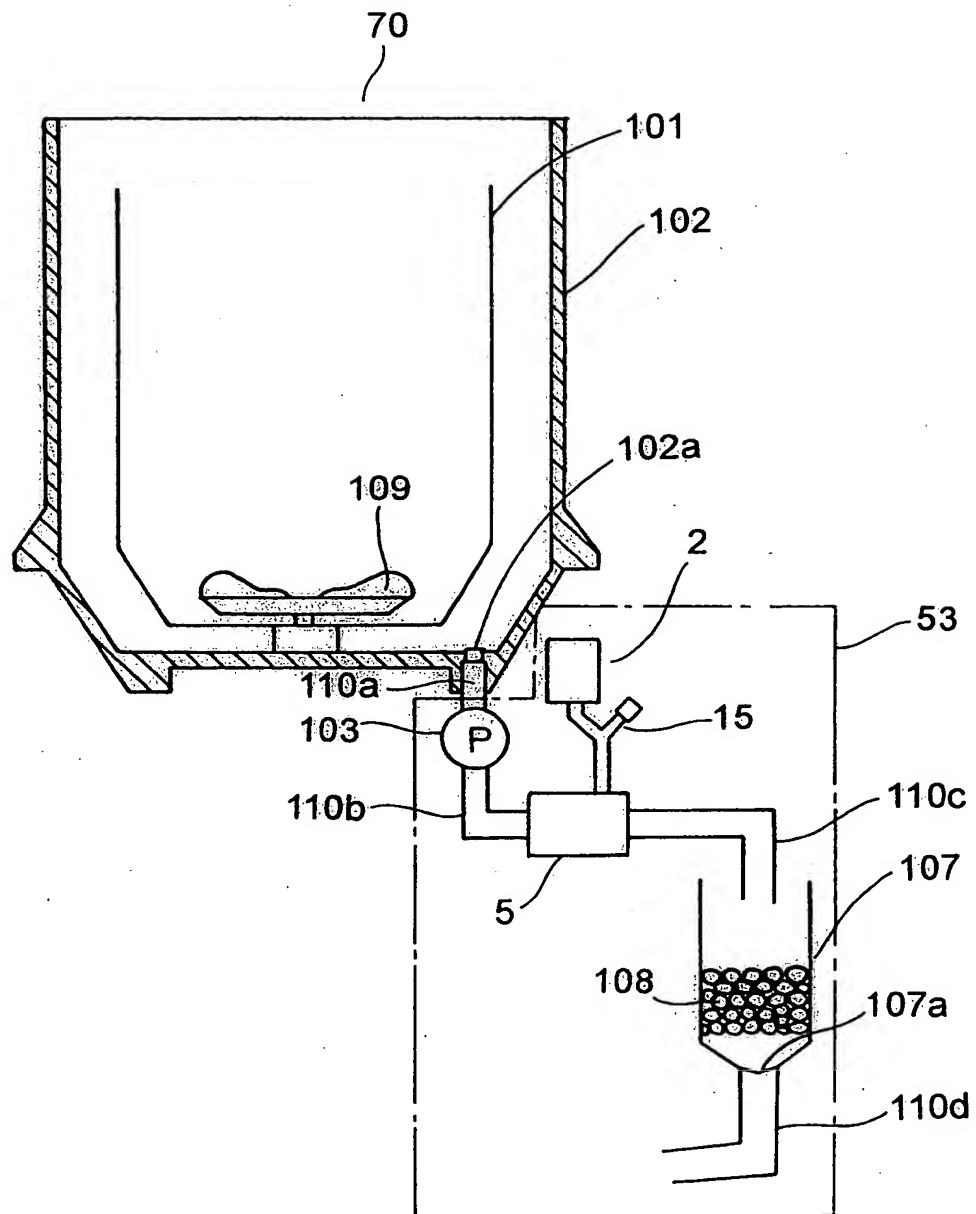
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FIG. 4



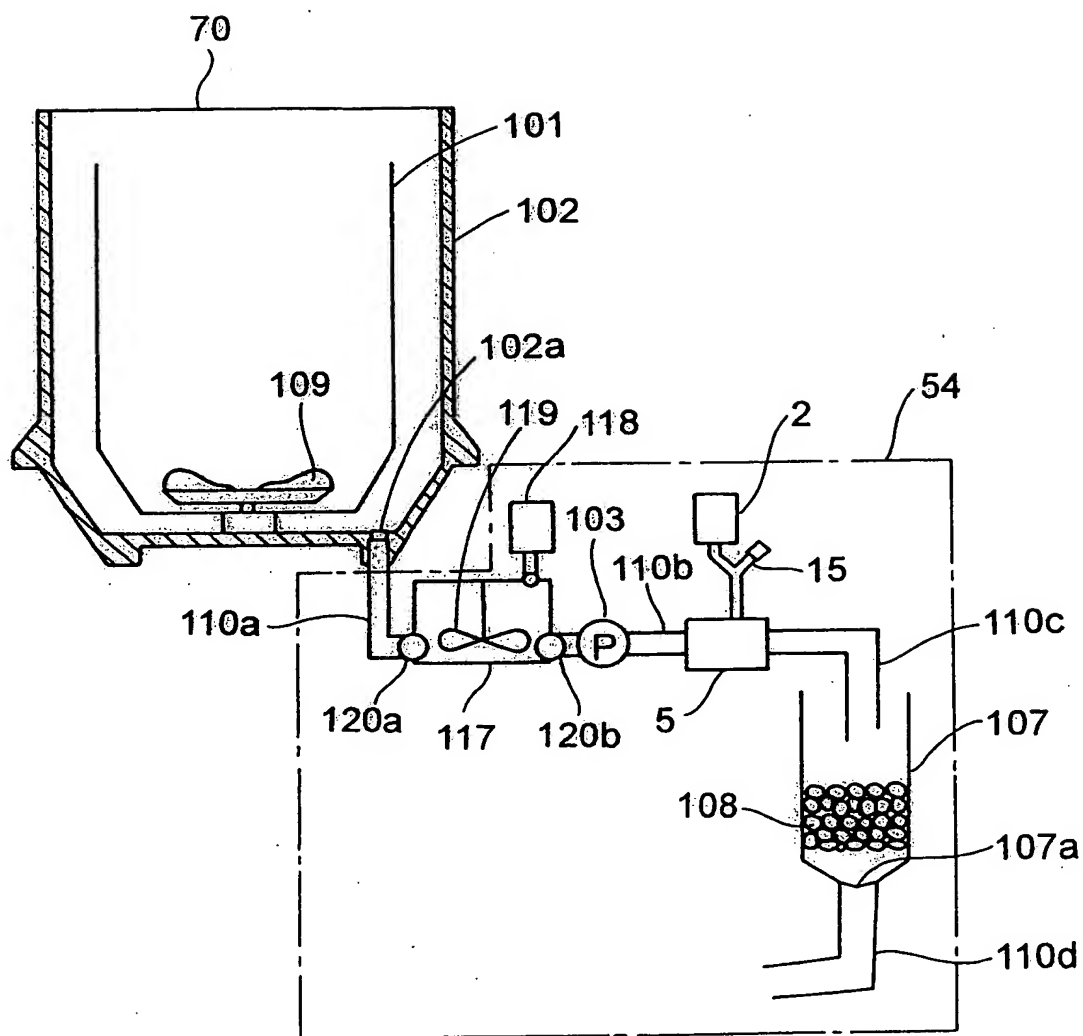
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FIG. 5



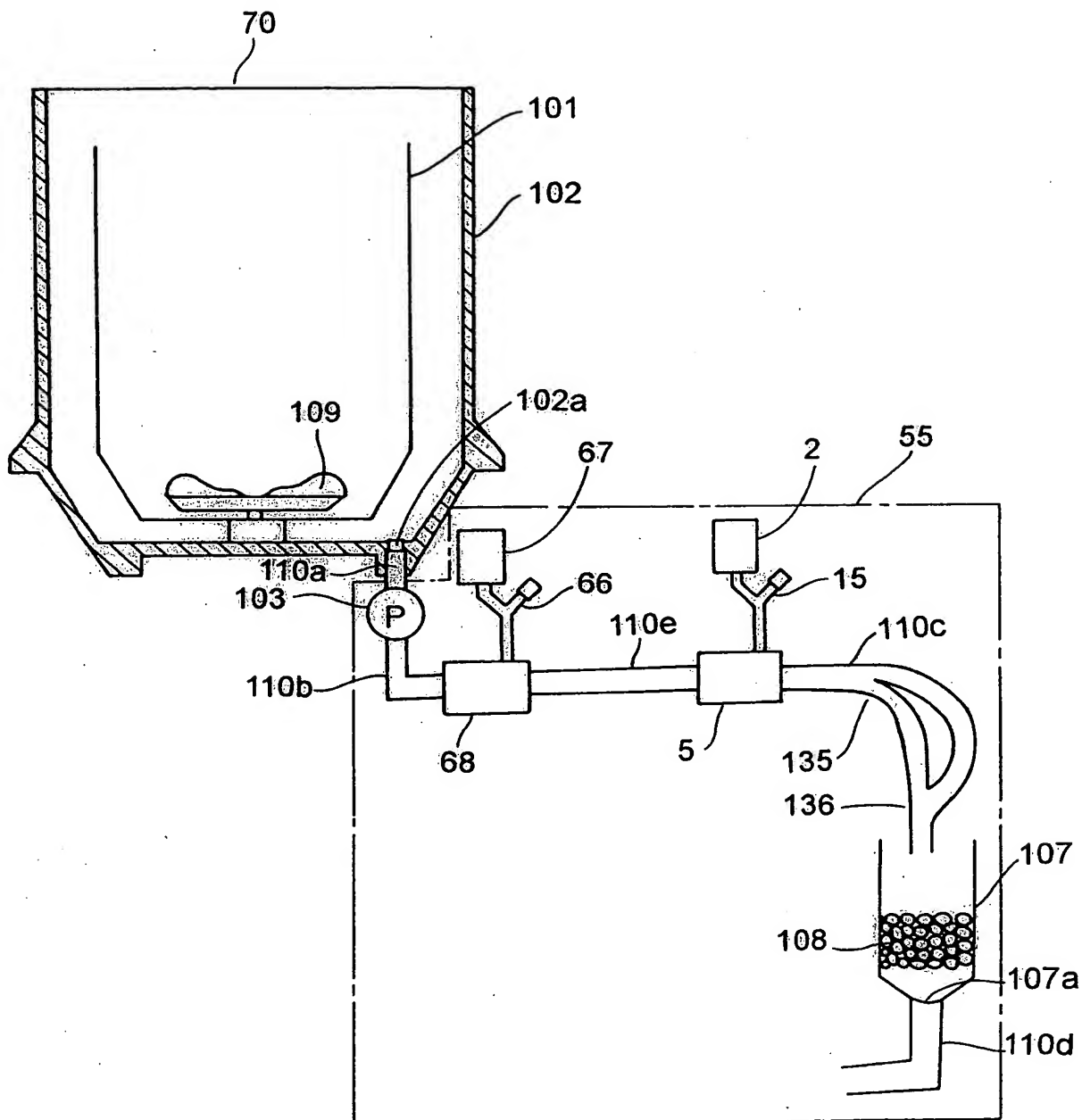
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FIG. 6



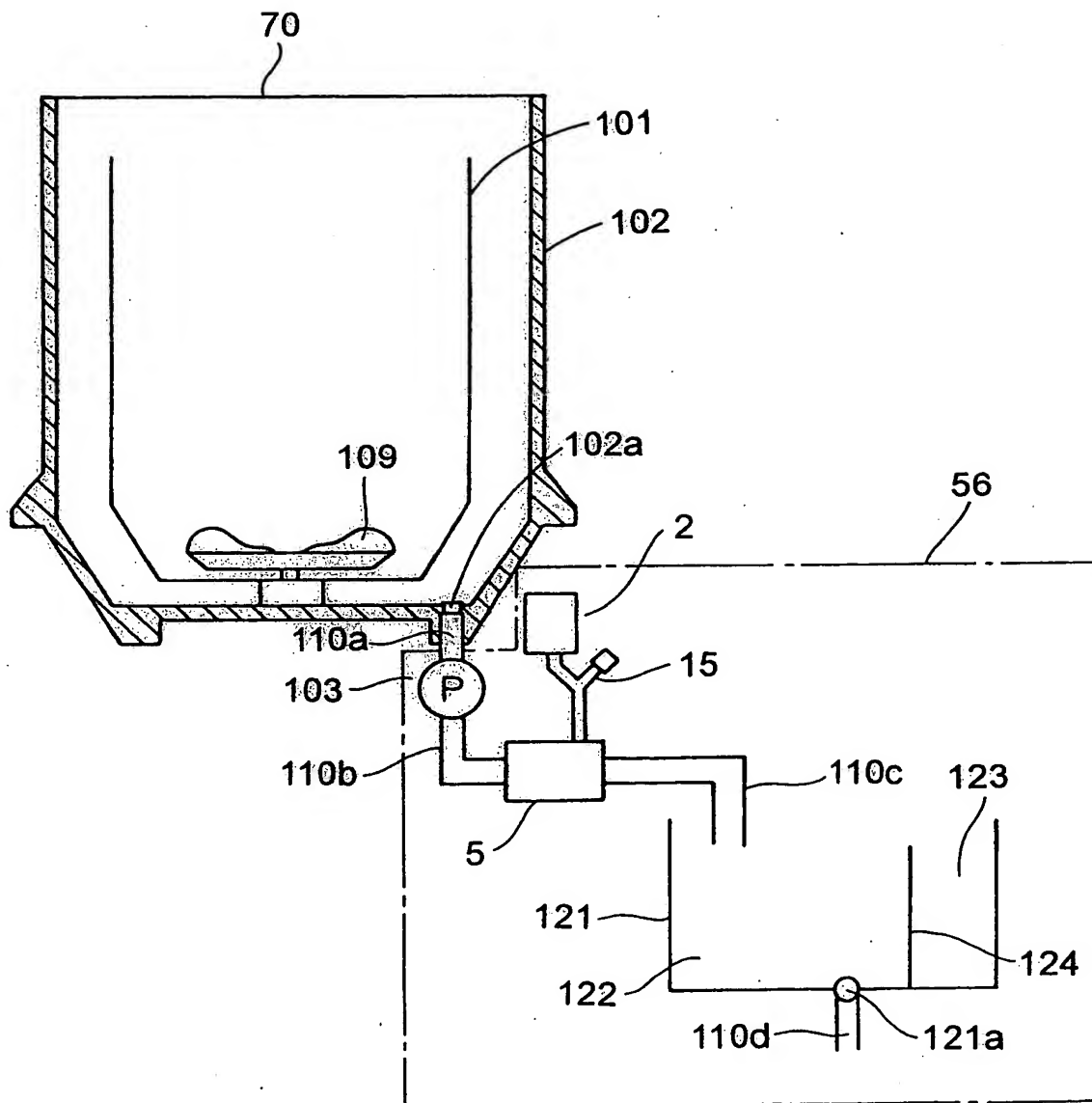
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FIG. 7



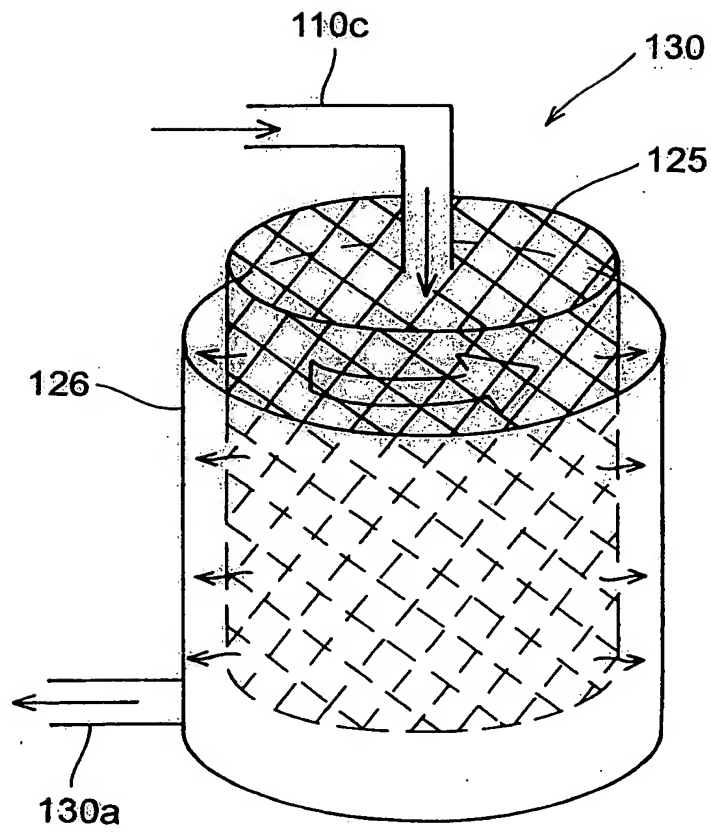
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FIG. 8



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FIG. 9



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FIG. 10

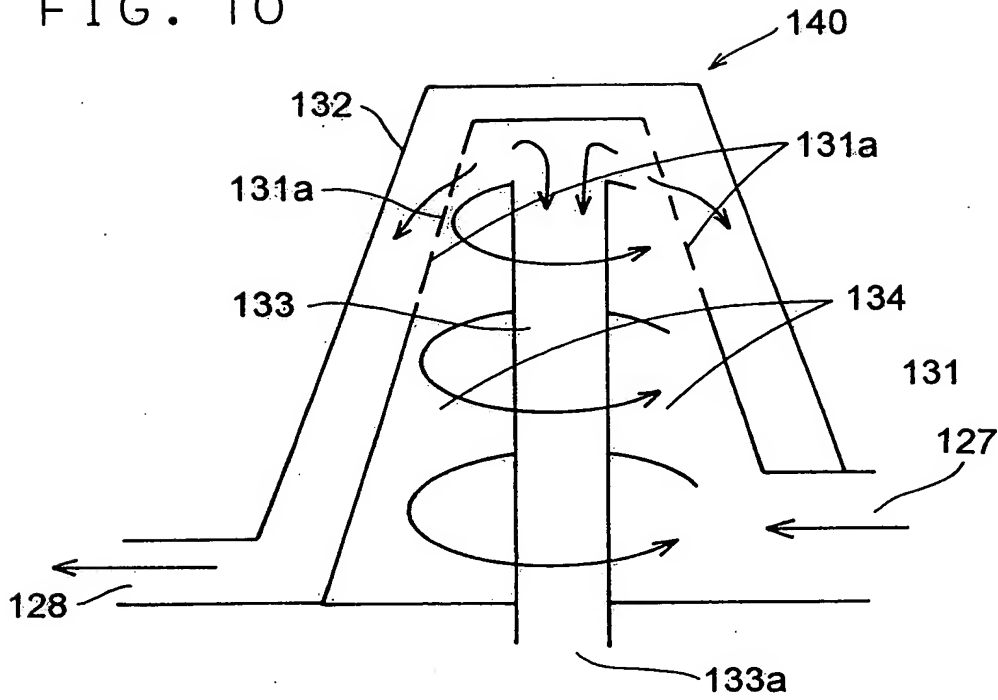
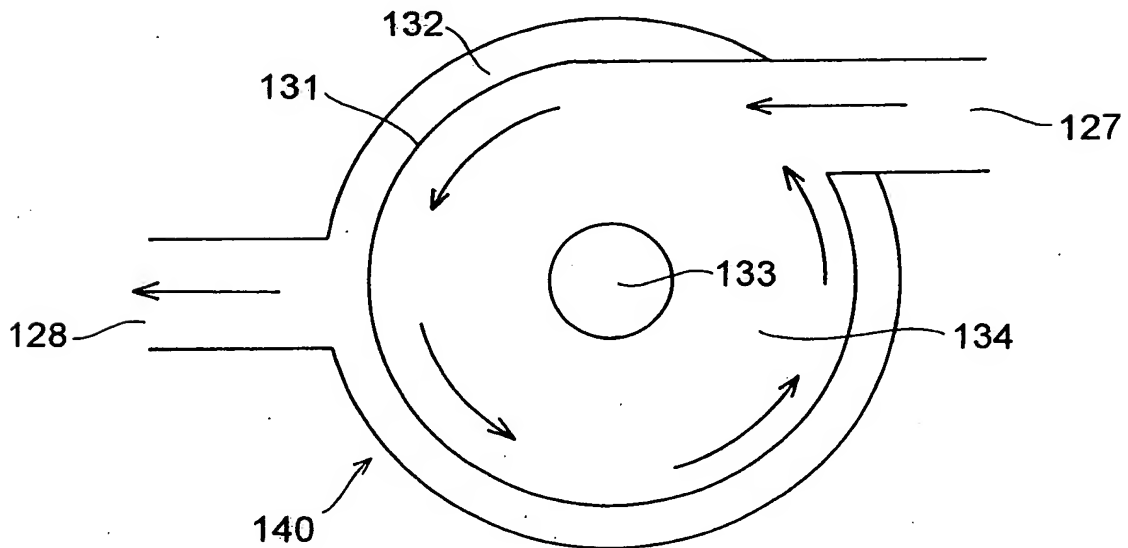
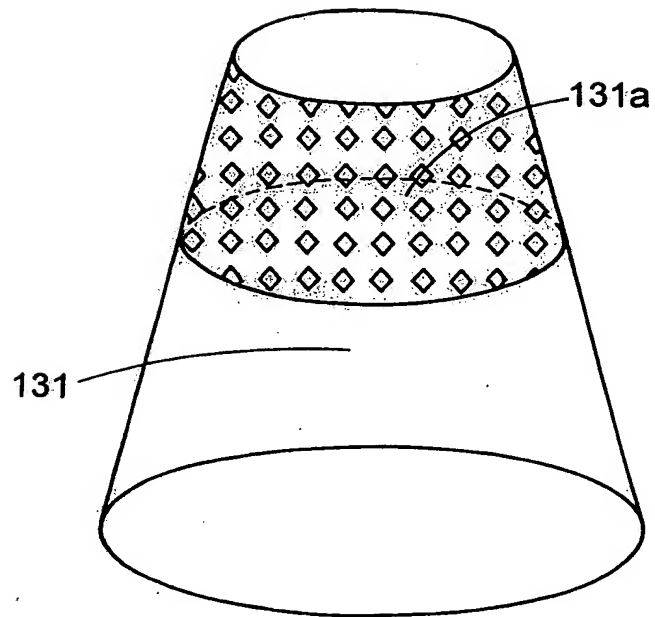


FIG. 11



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FIG. 12



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FIG. 13

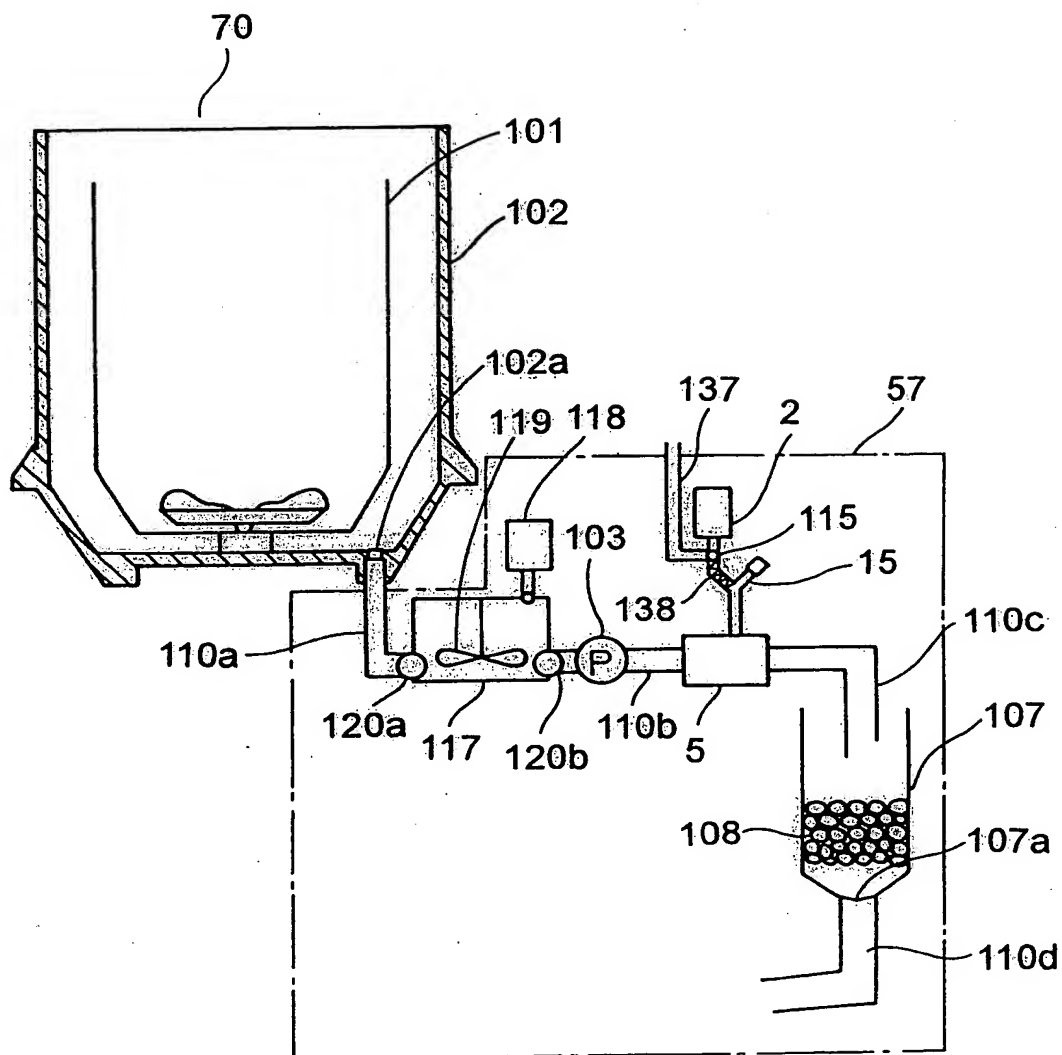


FIG. 14

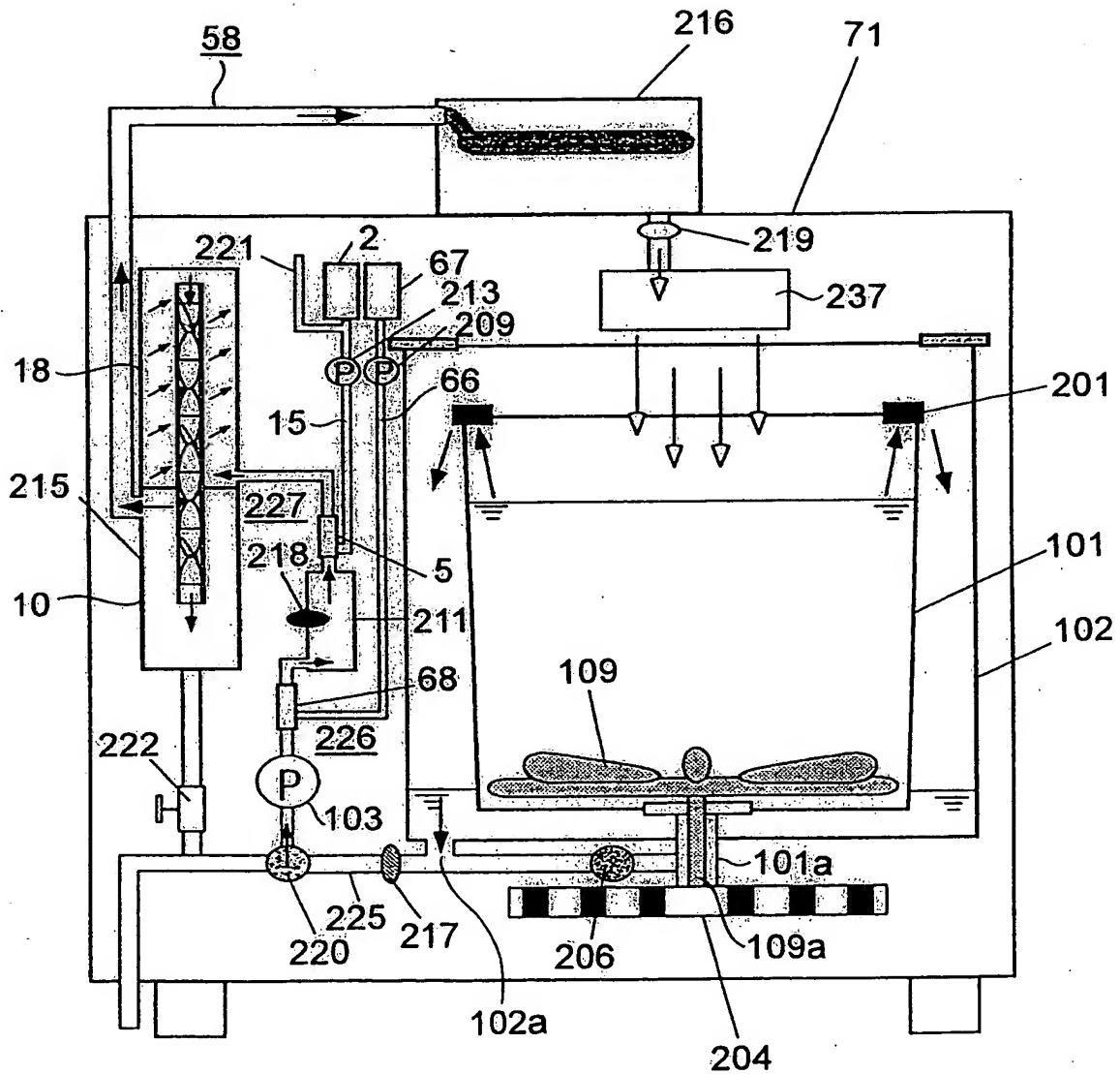


FIG. 15

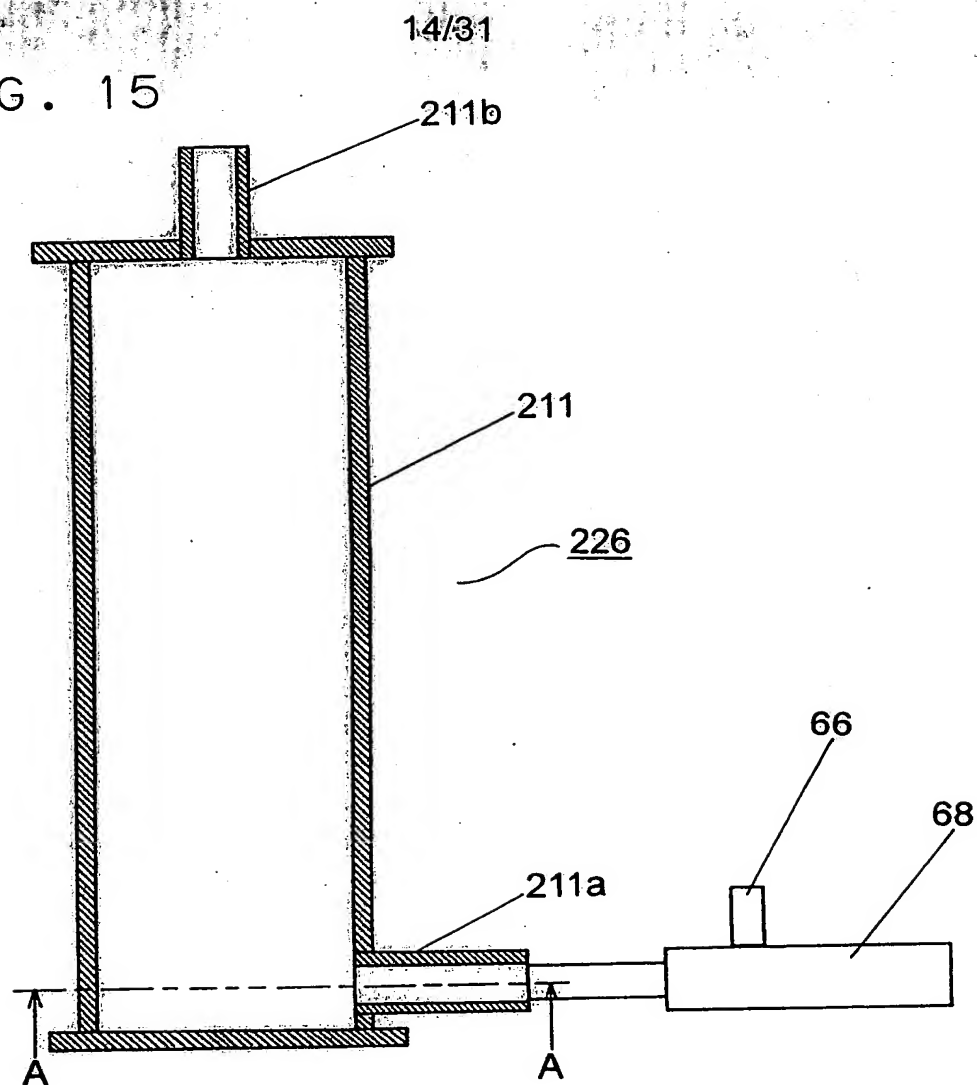
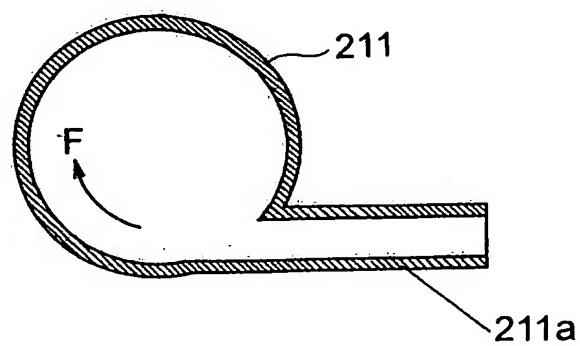
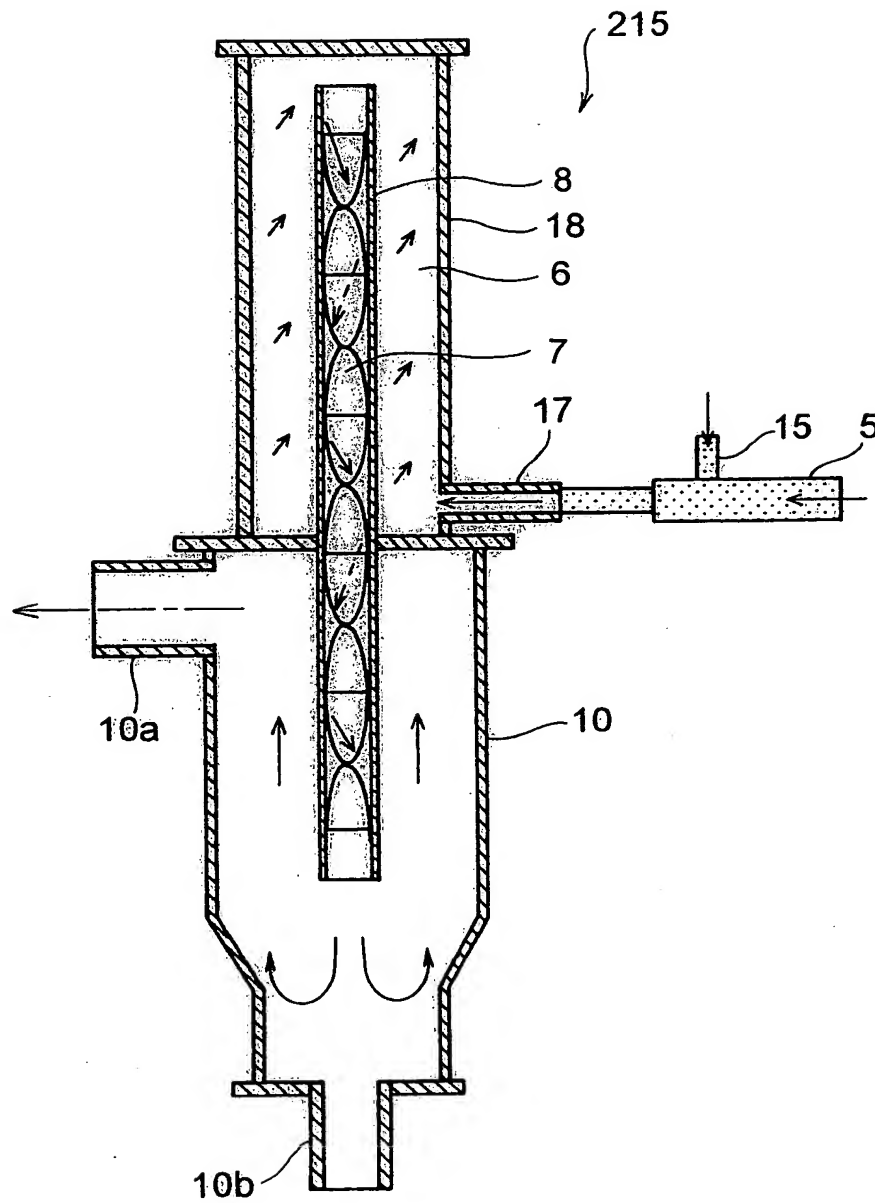


FIG. 16



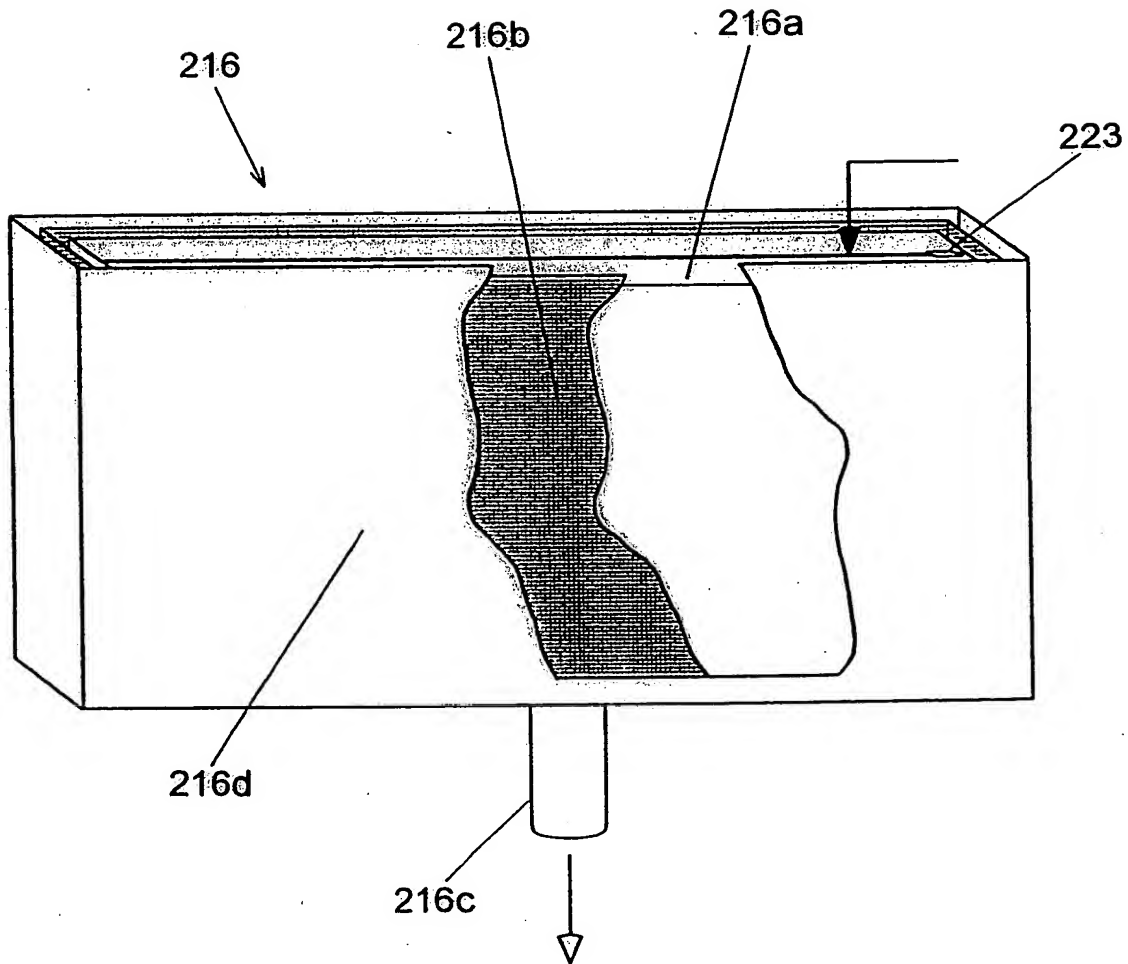
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FIG. 17



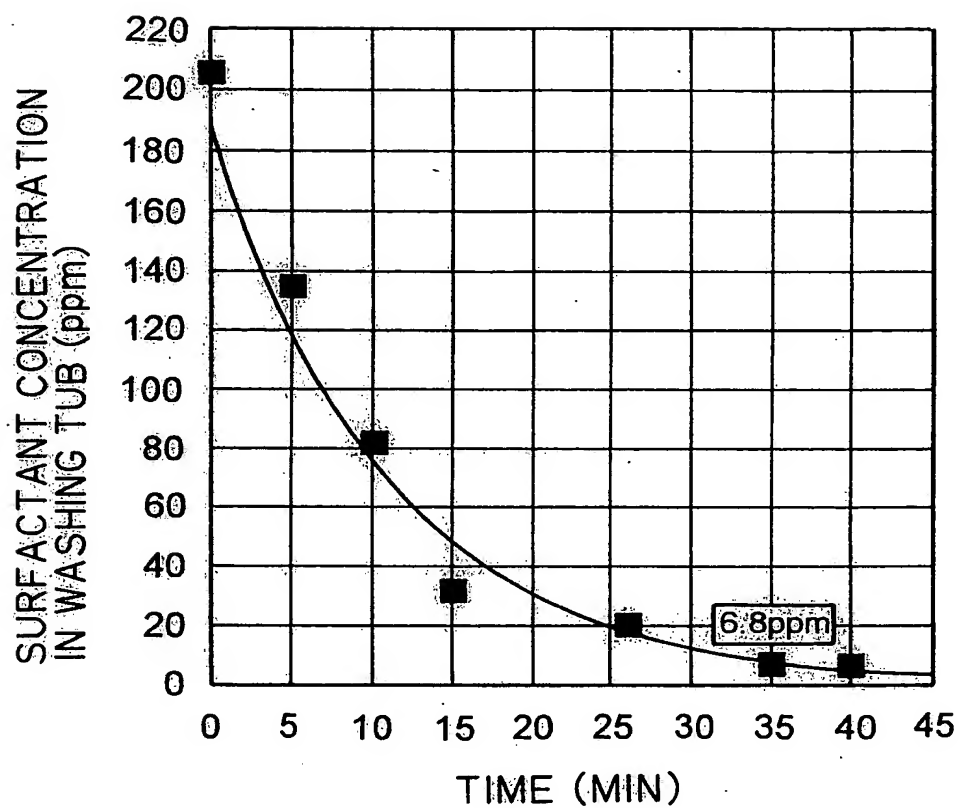
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FIG. 18



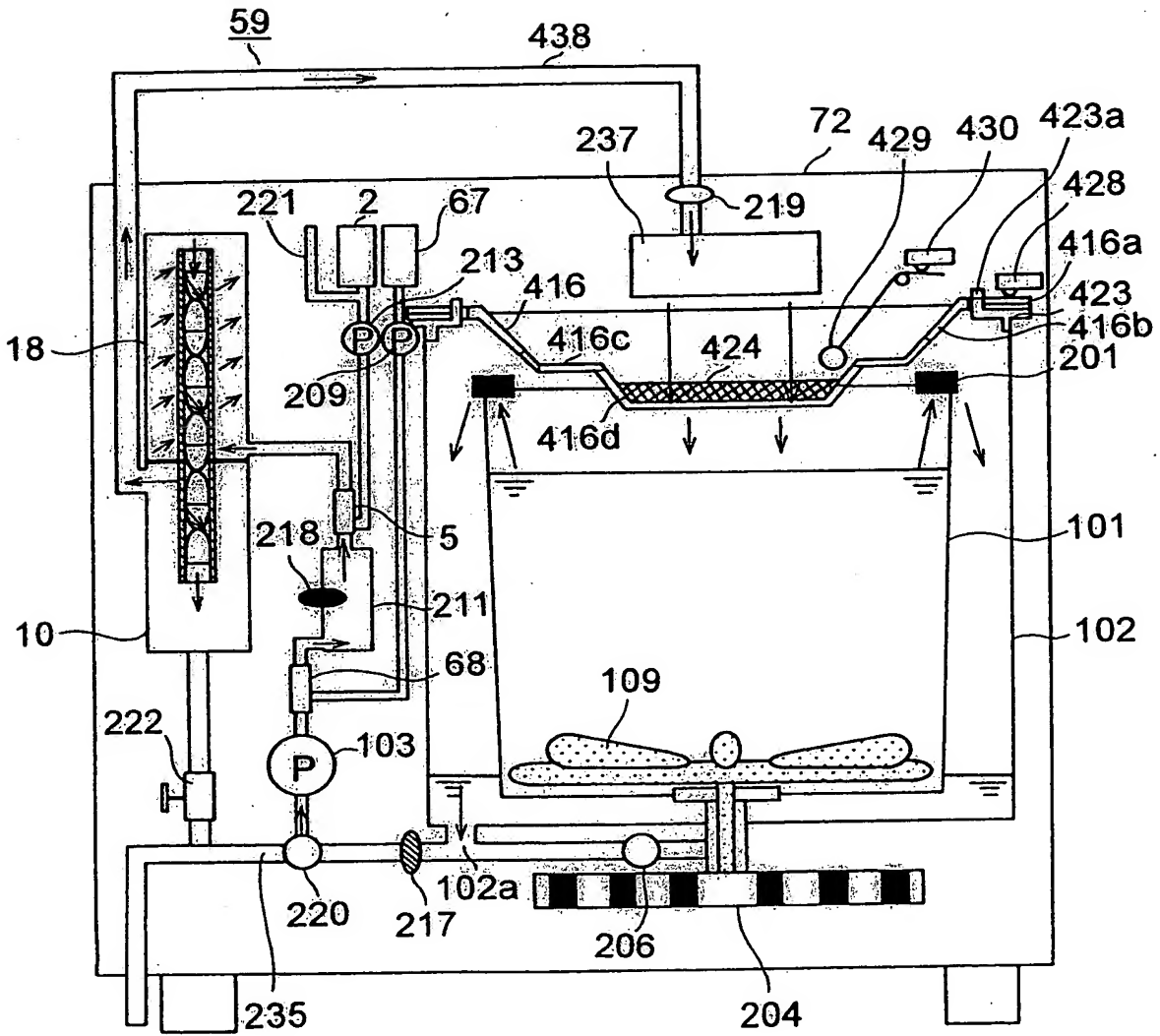
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FIG. 19



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FIG. 20



100102 010403 100102

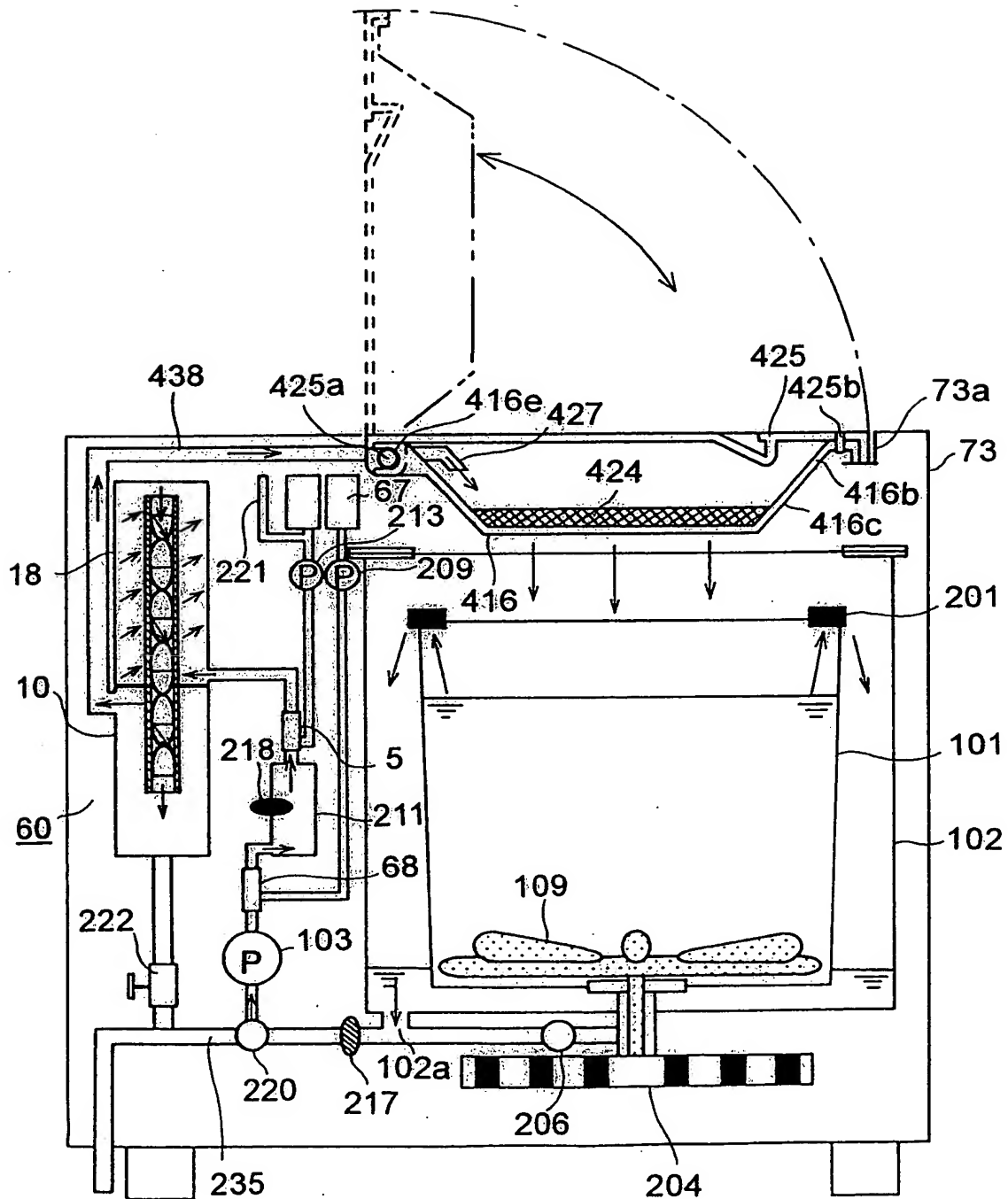
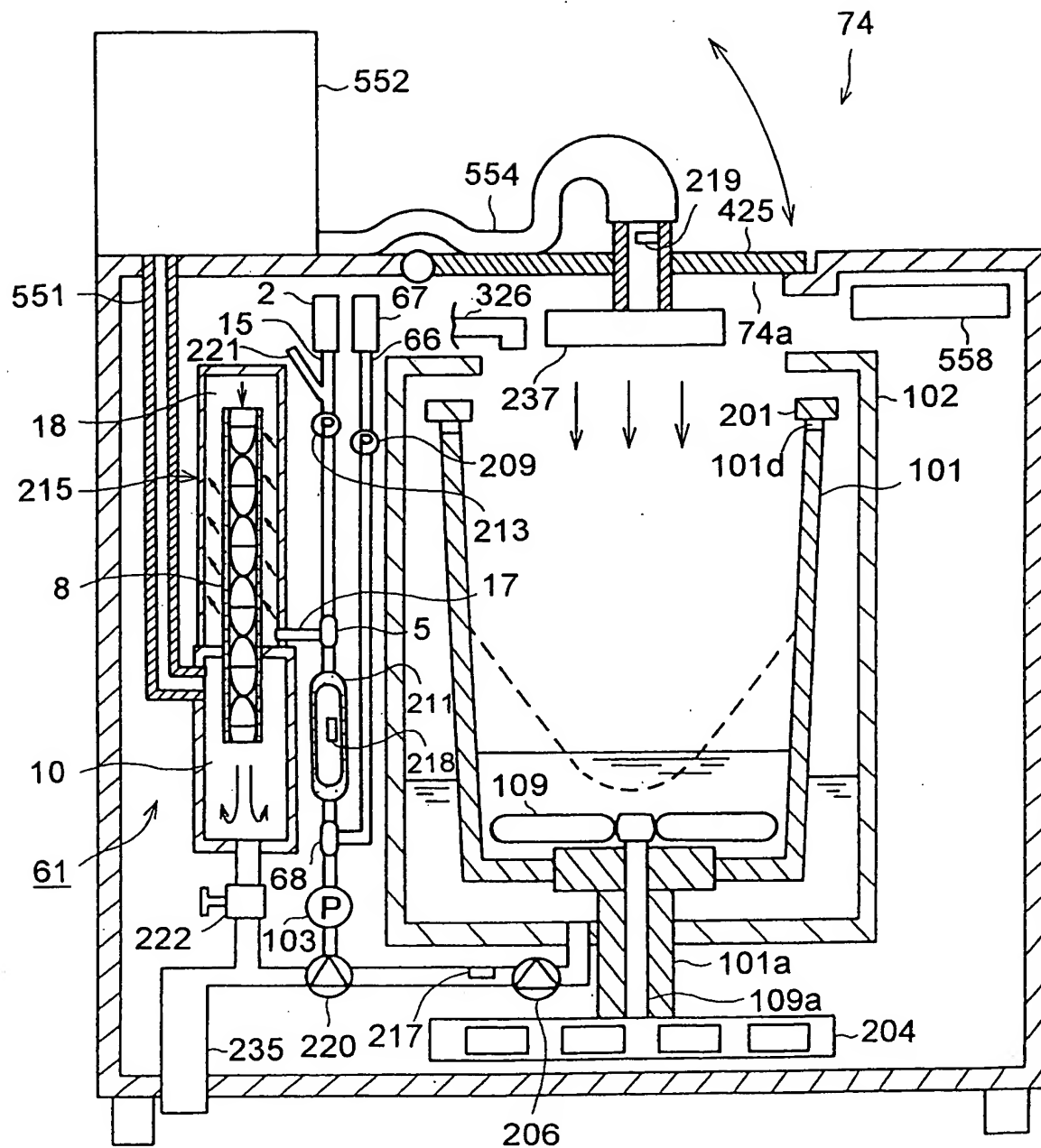
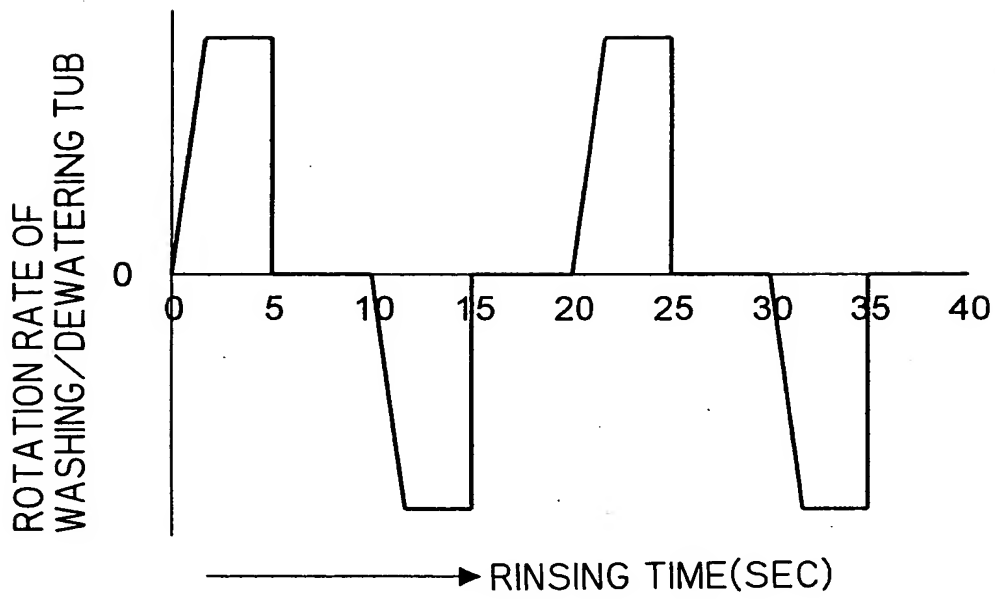


FIG. 22



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FIG. 23



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FIG. 24

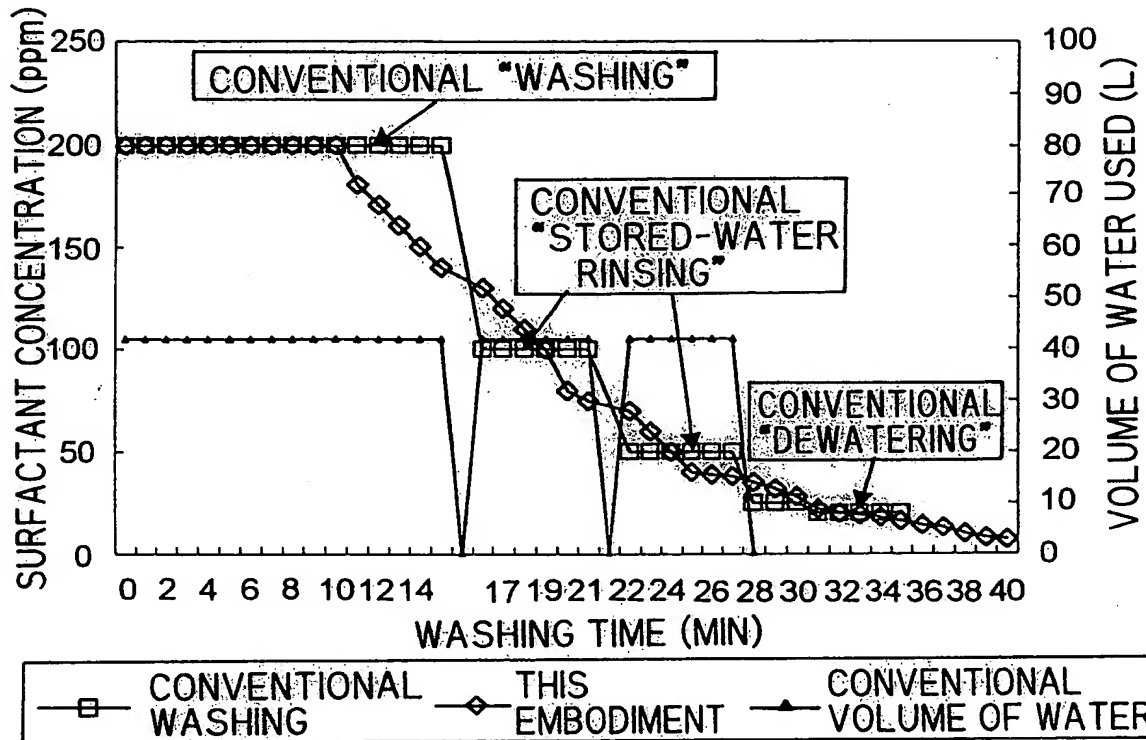


FIG. 25

	SURFACTANT CONCENTRATION IN WATER DISCHARGED IN FINAL DEWATERING(ppm)	TURBIDITY (NTU)
CONVENTIONAL RINSING	35	10.2
PURIFIED-WATER RINSING	20	1.5

FIG. 26

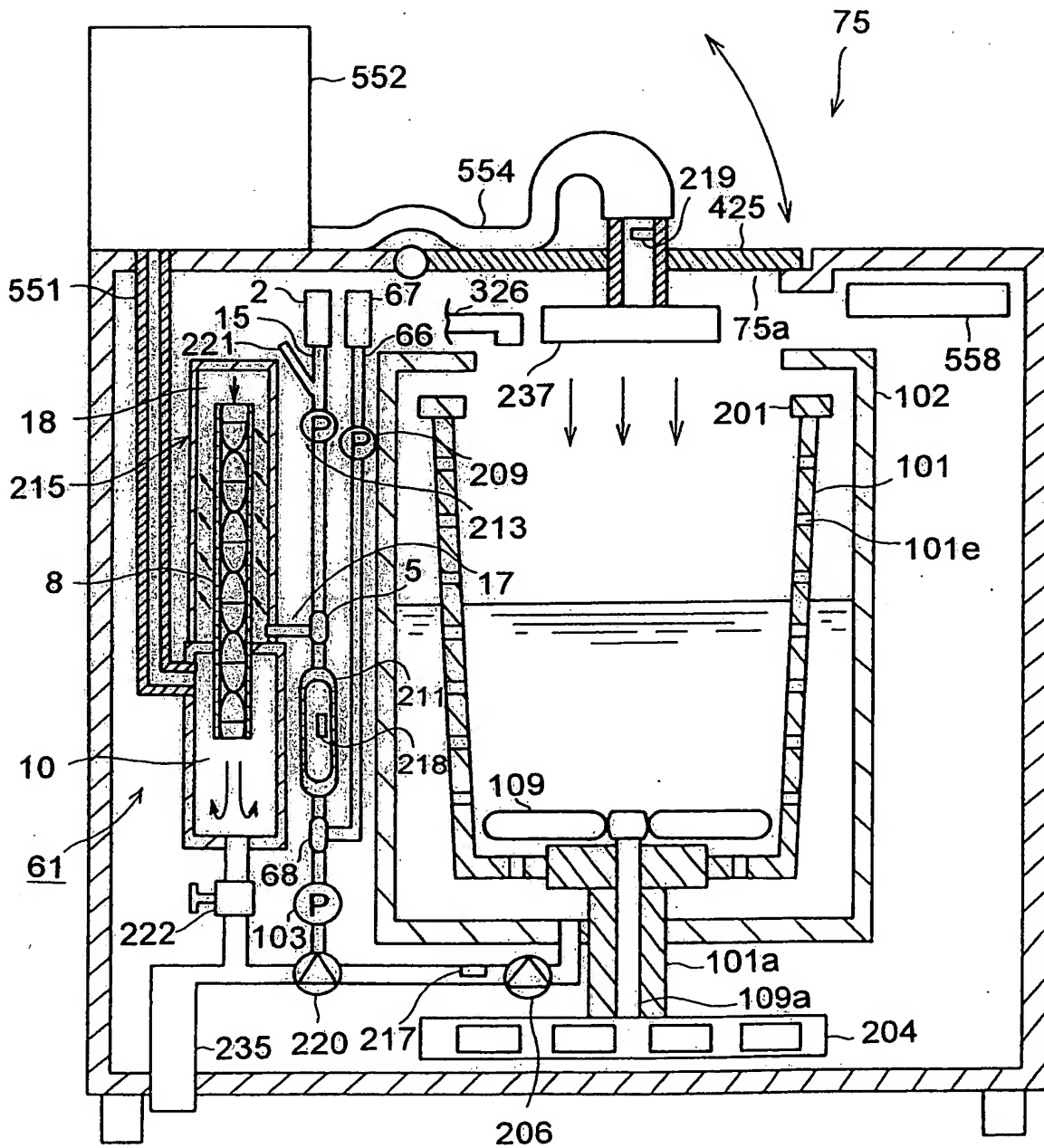
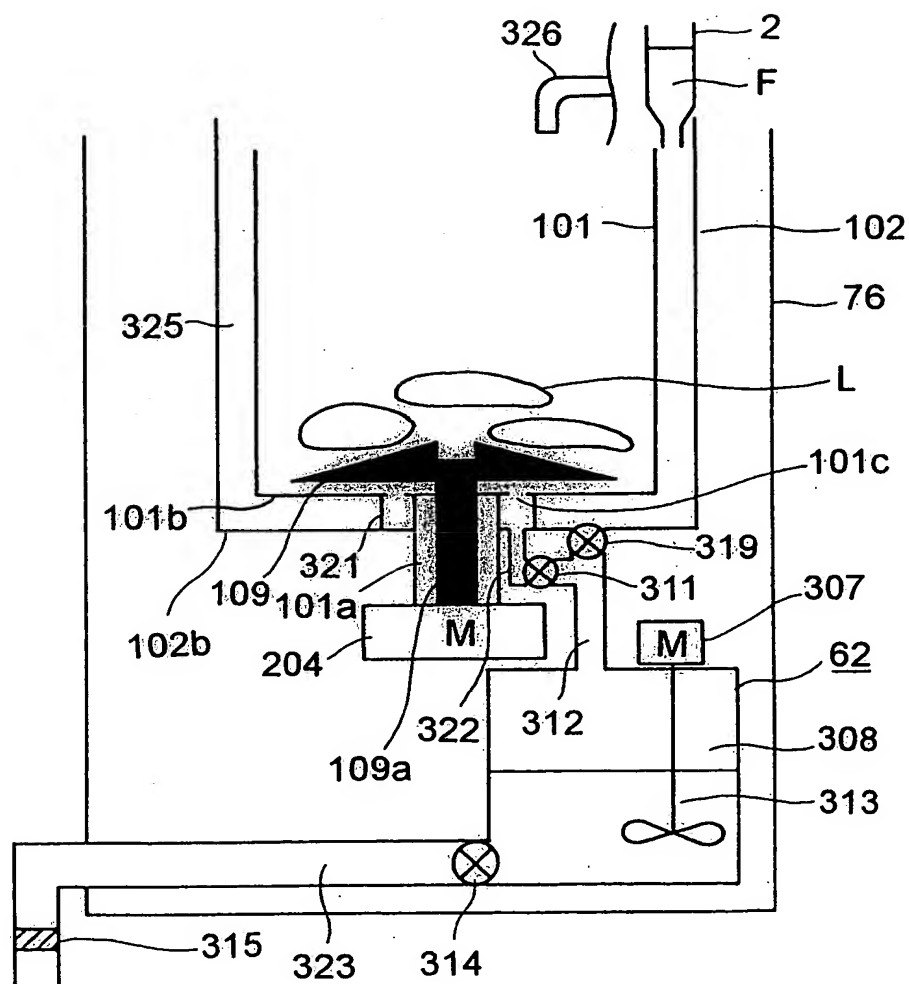
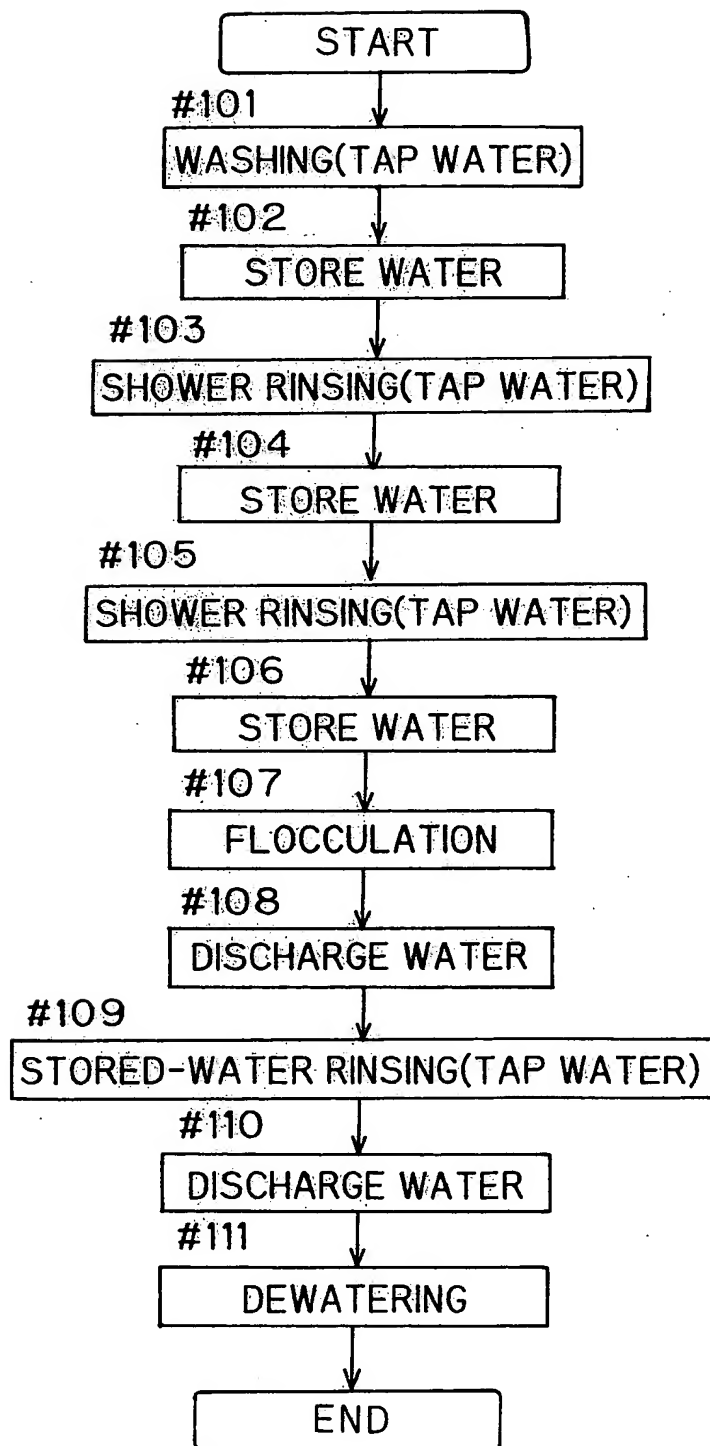


FIG. 27



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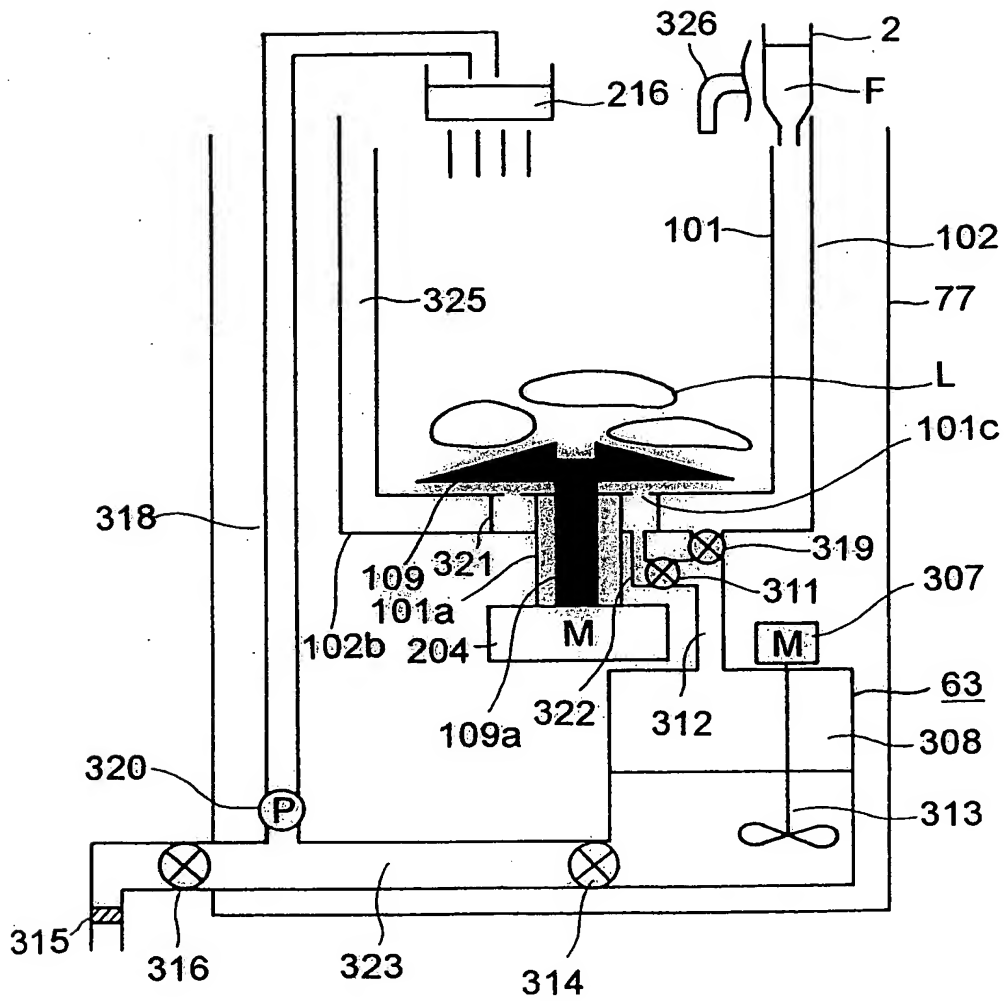
FIG. 28



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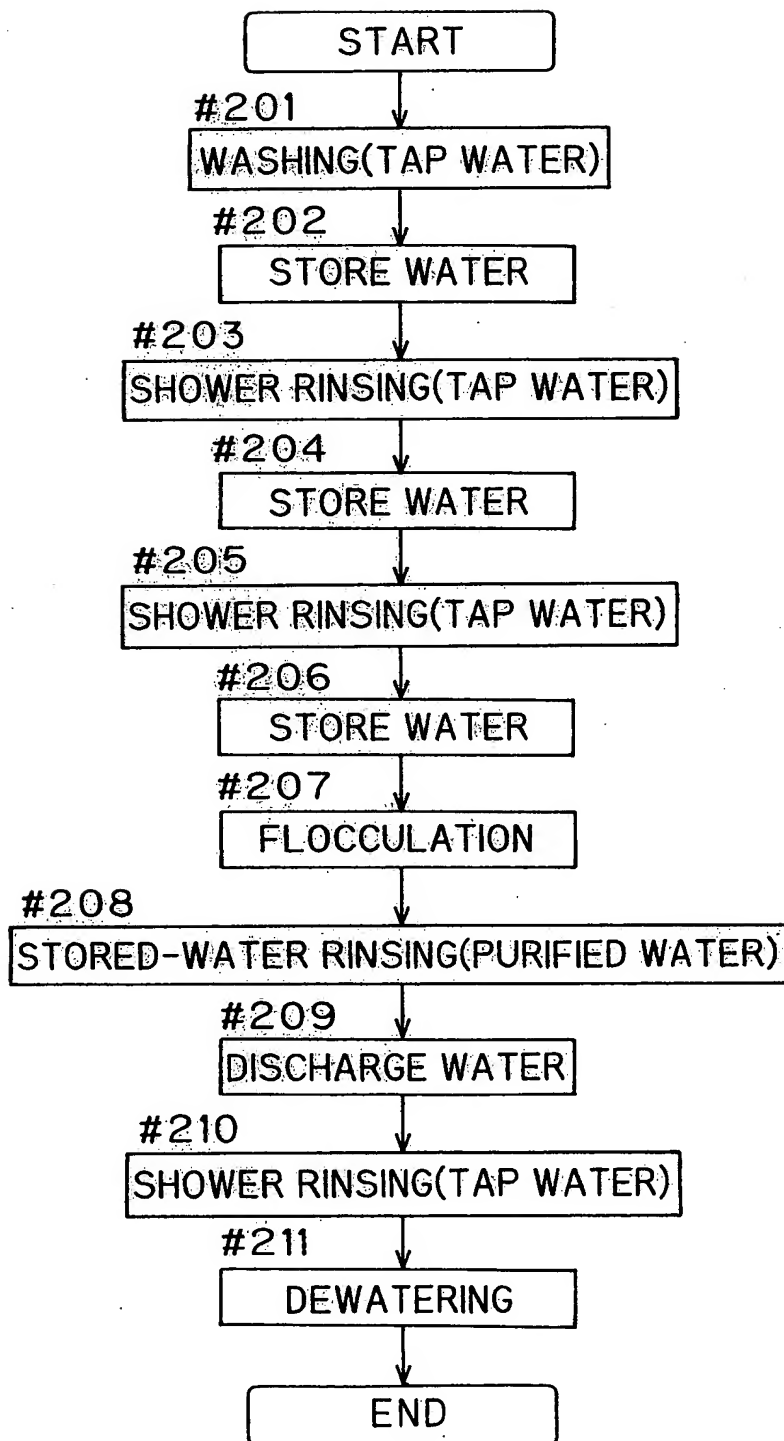
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FIG. 29



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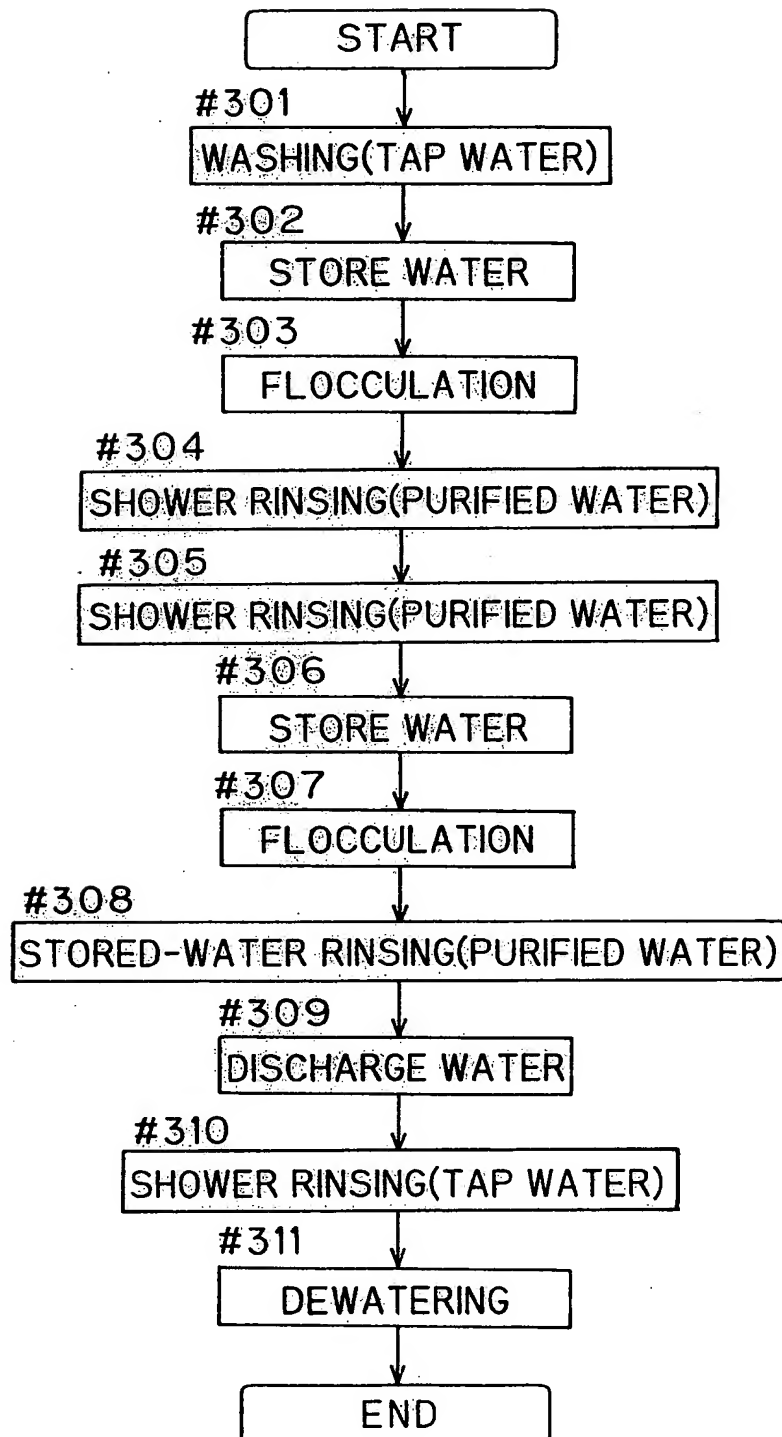
FIG. 30



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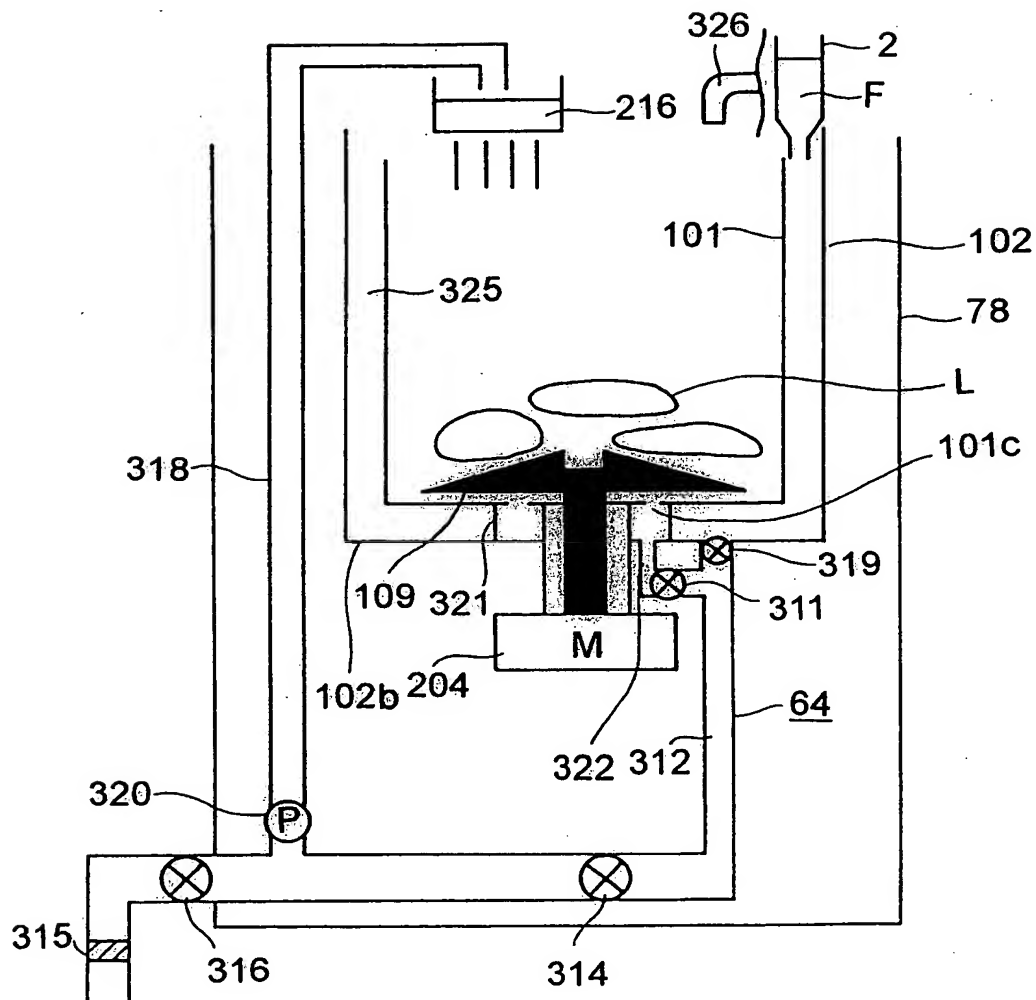
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FIG. 31



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FIG. 32



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FIG. 33

FLOCCULANT WATER SOLUTION	FLOCCULANT	BASICITY	CONCENTRATION (ON AN Al_2O_3 BASIS)
TAKIBINE#1500	PAC	83	23.2%
TAKIBINE#100	$AlCl_3$	0	11.5%

FIG. 34

	FLOCCULANT WATER SOLUTION	PAC: $AlCl_3$ (RATIO BY WEIGHT ON AN Al_2O_3 BASIS)	AMOUNT NEEDED (ON AN Al_2O_3 BASIS)	COLD WATER
COMPARATIVE EXAMPLE 1	RE-1	1 : 0	230mg/L	○
PRACTICAL EXAMPLE 1	SA-1	6 : 1	216mg/L	○
PRACTICAL EXAMPLE 2	SA-2	2 : 1	202mg/L	○
PRACTICAL EXAMPLE 3	SA-3	2 : 3	90mg/L	○
COMPARATIVE EXAMPLE 2	RE-2	0 : 1	60mg/L	×

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FIG. 35

PAC ADDED (mL/L)	HCl ADDED (mL/L)	WASTEWATER pH	SURFACTANT REMOVAL RATE (%)
1.75	0	5.5	96.0
1.75	0.25	4.3	97.6
1.75	0.5	3.6	97.9

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